

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/007566 A2**

(51) International Patent Classification<sup>7</sup>: **C01B**

[UA/US]: 33 Sandtrap Circle, Ivyland, PA 18974 (US).  
**BARSOUM, Michel, W.** [US/US]: 24 Woodland Avenue,  
Moorestown, NJ 08057 (US).

(21) International Application Number:  
PCT/US2004/021382

(74) Agents: **LICATA, Jane, Massey et al.**; Licata & Tyrrell  
P.C., 66 E. Main Street, Marlton, NJ 08053 (US).

(22) International Filing Date: 2 July 2004 (02.07.2004)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(26) Publication Language: English

(30) Priority Data:  
60/484,840 3 July 2003 (03.07.2003) US

(71) Applicant (for all designated States except US): **DREXEL  
UNIVERSITY** [US/US]; 32nd and Chestnut Streets,  
Philadelphia, PA 19104 (US).

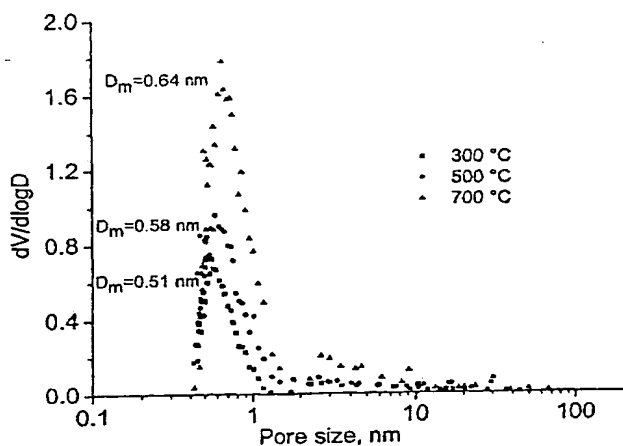
(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOGOTSI, Yury**

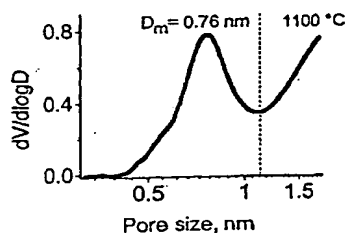
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: NANOPOROUS CARBIDE DERIVED CARBON WITH TUNABLE PORE SIZE



a

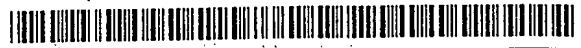


b

(57) Abstract: The present invention provides a method  
for producing a nanoporous carbide-derived carbon com-  
position with a tunable pore structure and a narrow pore  
size. Also provided are compositions prepared by the  
method.

WO 2005/007566 A2

BEST AVAILABLE COPY



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*

BEST AVAILABLE COPY